



- SEQUENCE OF OPERATION:
- 1. INSTALL PUMP DISCHARGE PIPE ACROSS ROUTE 30 AND SET UP BYPASS PUMP
  - 2. INSTALL SUMP PIPE
  - 3. PUMP WATER AROUND EXISTING CULVERT

NOTES:

THE INTENT OF THE STREAM DIVERSION IS TO UTILIZE THE EXISTING CULVERTS DURING A STORM EVENT IF THE FLOW GETS OVER 25 CFS AND THE PUMP CAN NOT KEEP UP. THE SUMP PIPE WILL BUILD A WATER LEVEL ENOUGH FOR THE PUMP SUCTION TO ADAQUTLY DRAW FROM. IF THE WATER SHOULD OVER TAKE THE SUMP PIPE IT WILL FLOW DOWN THE EXISTING CULVERT AS IT NORMALLY WOULD. WHEN WE HAVE SECTIONS OF THE NEW BOX INSTALLED THE EXISTING CULVERTS WILL BE MADE TO EXTEND INTO THE NEW CULVERT SO THE STREAM CAN CONTINUE ITS FLOW UNINTERRUPTED.

THE 6" PUMP WILL HANDLE 25CFS. THE SUMP PIPE PROVIDES AN ADAQUATE POND TO DRAW FROM. THE DISCHAGE WILL BE ALLOWED TO FLOW GRAVITY BEFORE EXITING THE PIPE TO DISSAPATE THE WATER ENERGY ALONG WITH RIP RAP INSTALLED TO PREVENT SCOUR. FILTER BAGS WILL NOT BE USED FOR THIS OPERATION AS THE WATER THROUGH THE 6" PUMP IS EXPECTED TO DRAW AND DISCHARGE CLEAN. THE FILTER BAGS WILL BE USED FOR LOCALIZED PUMPING IN THE EXCAVATION.

BRIDGE 77 STREAM DIVERSION PLAN  
SCALE 1" = 20'-0"

REV. NO.		DATE:	<div>RENAUD BROS. INC.</div> <div>285 FT. BRIDGEMAN RD. VERNON VT., 05554 PH: (802) 251-7383 FAX: (802) 251-7308</div>	SHEET NAME:		BRIDGE 77 STREAM DIVERSION PLAN	
				PROJECT NAME:		WINHALL	
				PROJECT NO:		STP CULV (31)	
				DRAWN BY:		CHK'D BY:	DATE:
1		08/03/15			CE		06/22/2015
				SHEET NO.		1	
				OF		1	